

# **VOLUME 12**

Hammer strikes  
firing pin

Constant rearward  
pressure applied to  
trigger (single pull)

Hammer strikes  
firing pin

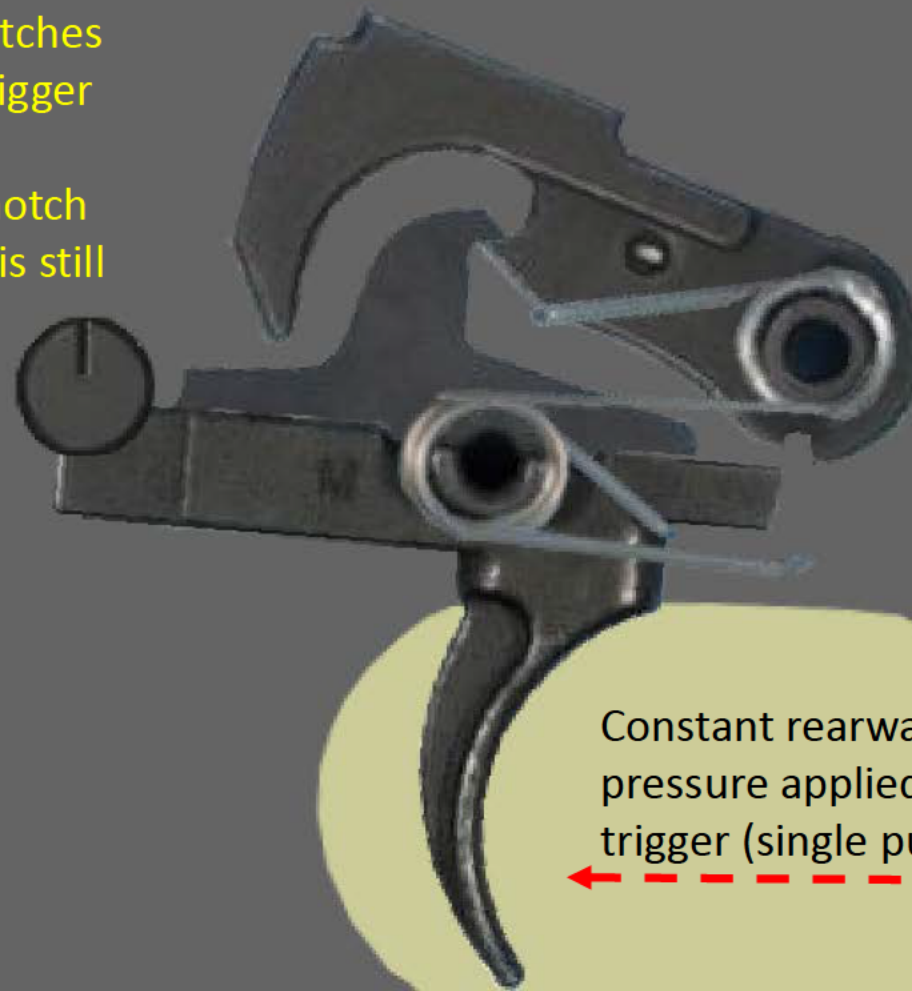
Constant rearward  
pressure applied to  
trigger (single pull)

Propellant gasses force  
the bolt rearward and  
force the hammer down

Constant rearward  
pressure applied to  
trigger (single pull)



The disconnecter catches the hammer. The trigger sear surface cannot engage the trigger notch because the trigger is still held back



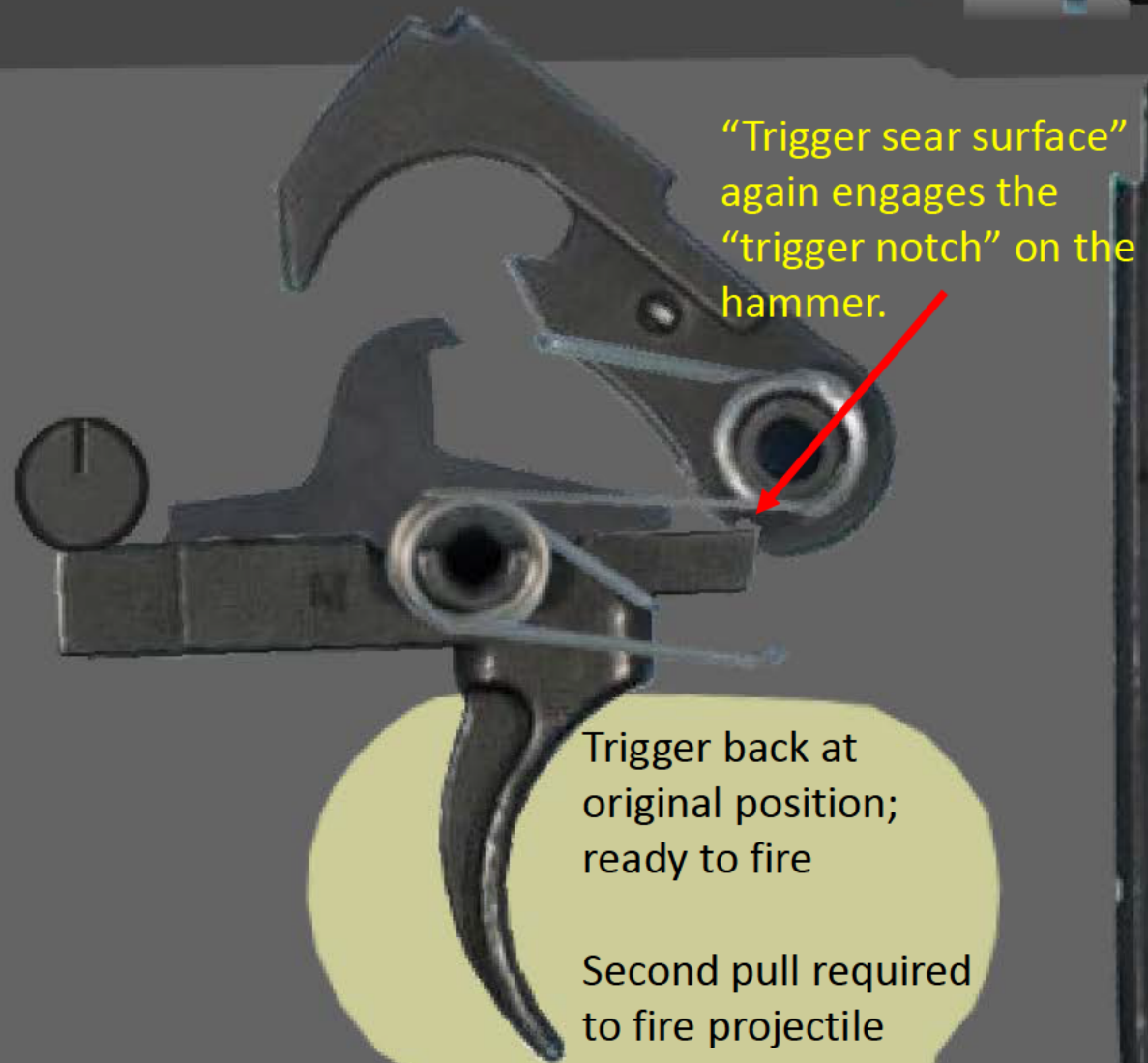
Constant rearward pressure applied to trigger (single pull)



Disconnecter releases  
hammer

In a semi-automatic  
firearm, the trigger must  
be released so that the  
disconnecter may rotate  
backward and release  
the hammer.

Trigger released  
by shooter









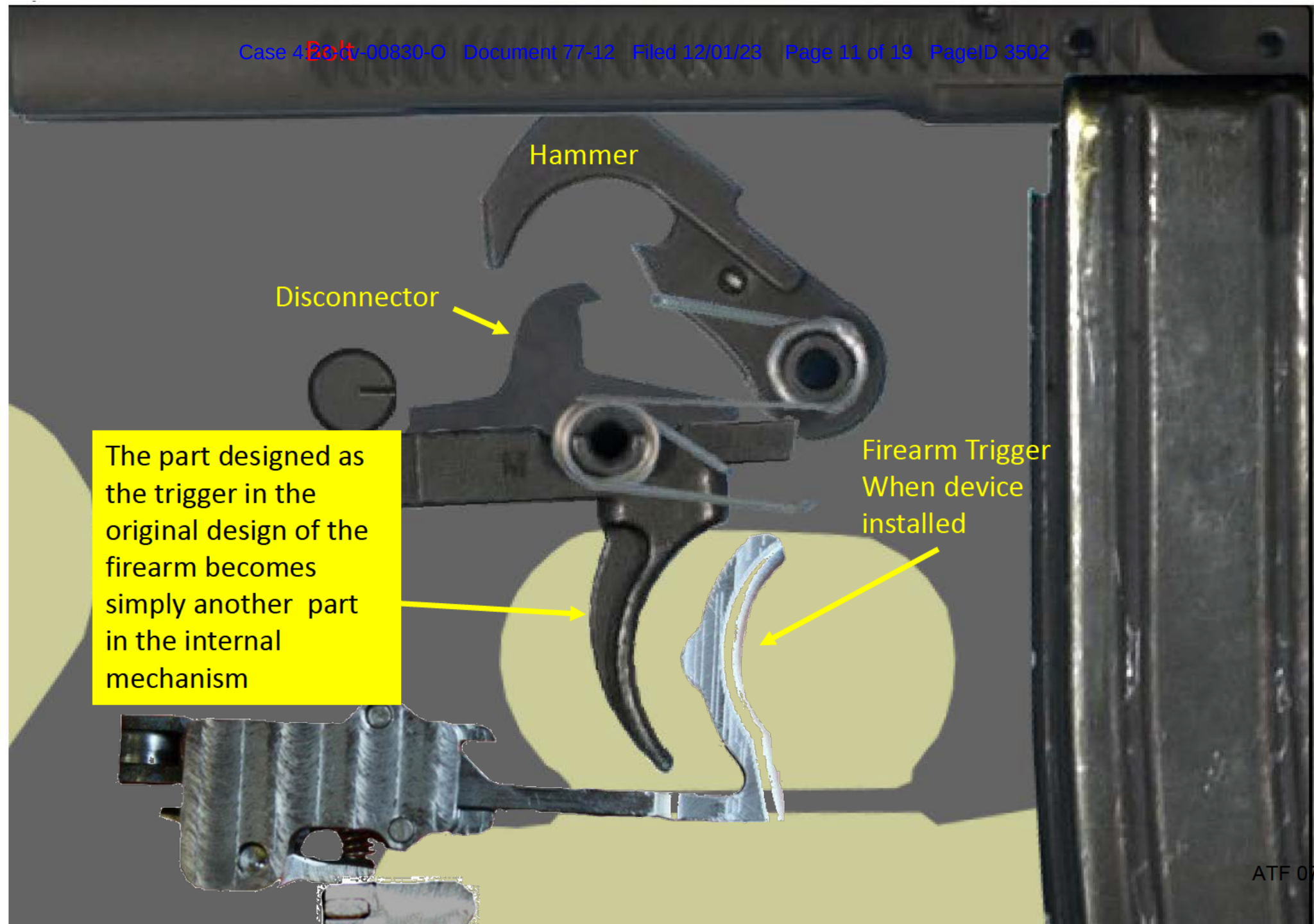




The internal mechanism is shown at its approximate location in the firearm







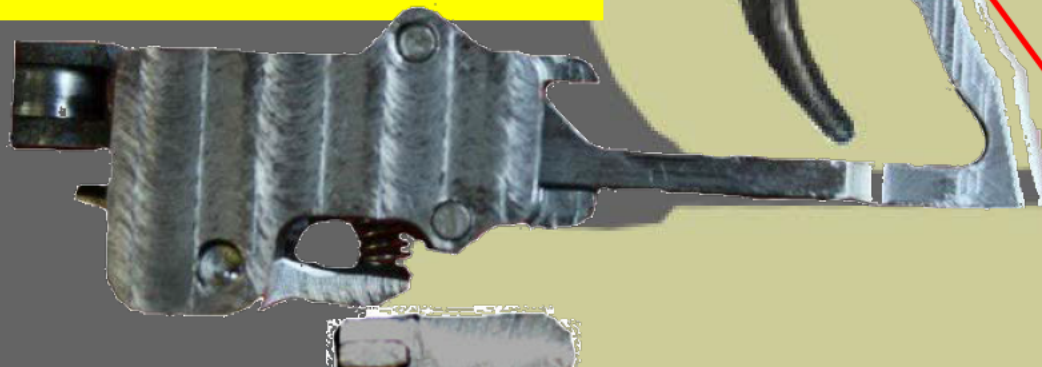
Hammer

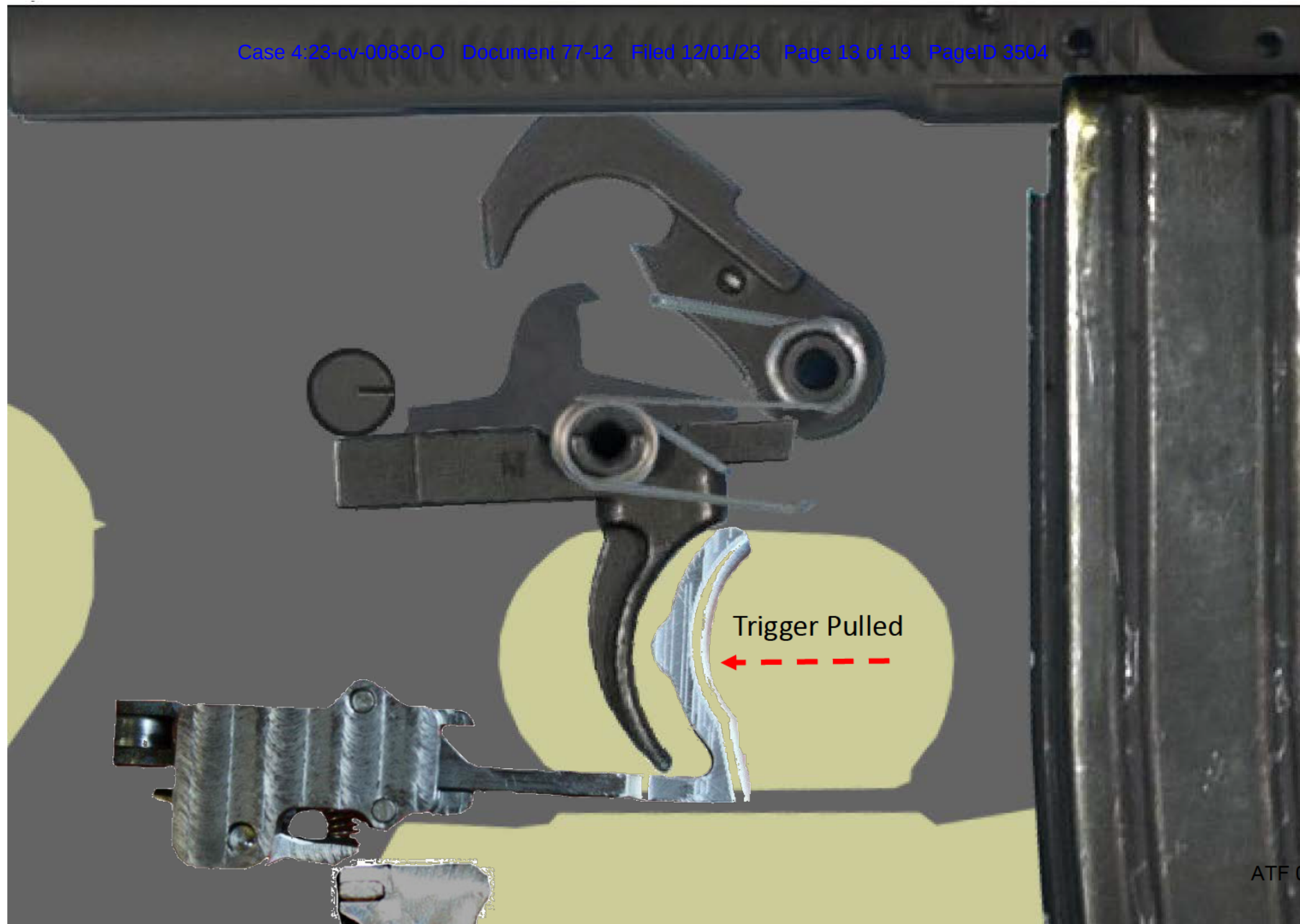
Disconnecter

The part designed as the trigger in the original design of the firearm becomes simply another part in the internal mechanism

Firearm Trigger  
When device  
installed

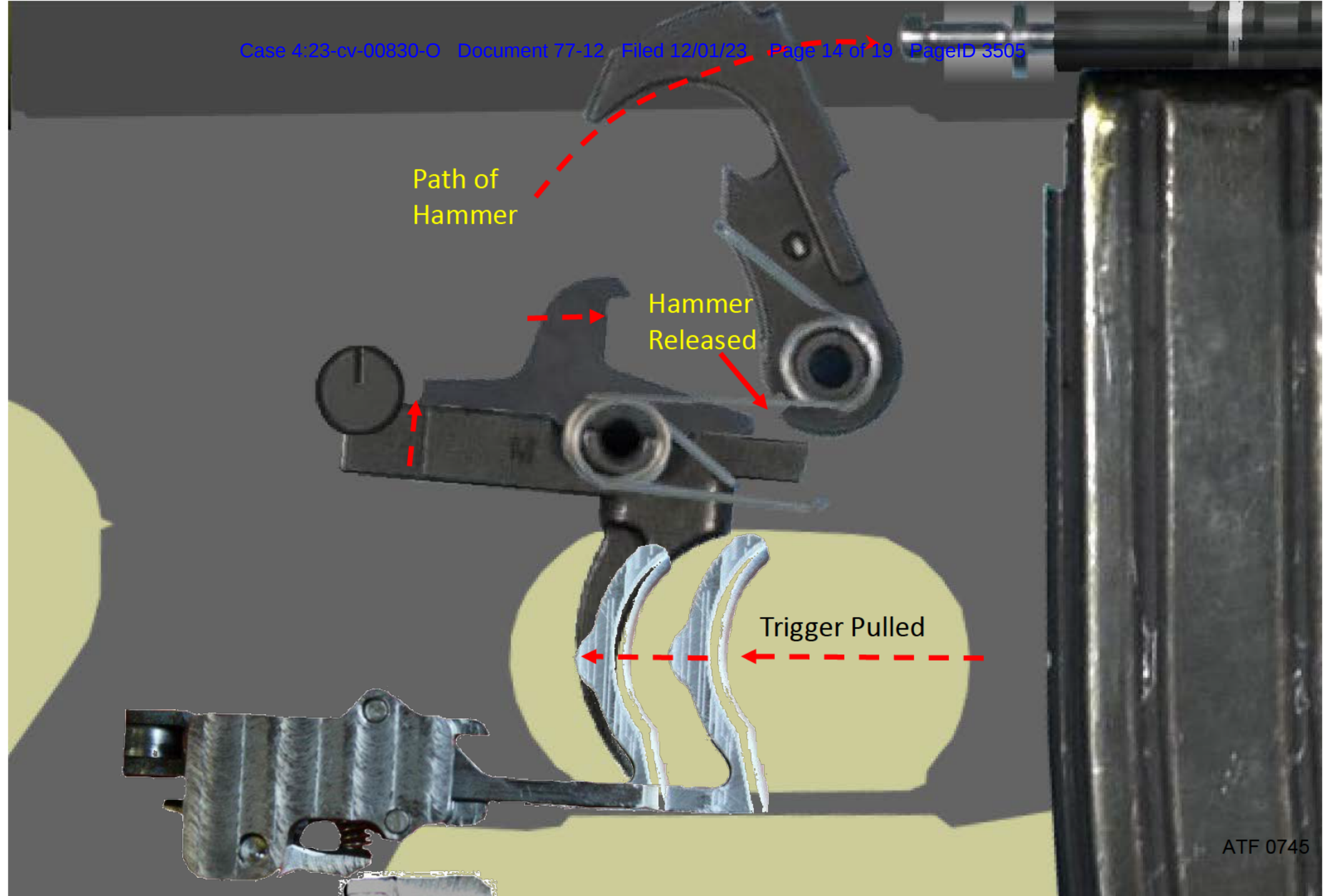
The hammer is held by the  
“trigger sear surface” (red)  
engaging the “trigger notch”  
on the hammer.





Trigger Pulled







Hammer strikes  
firing pin, causing  
the firing of a  
projectile

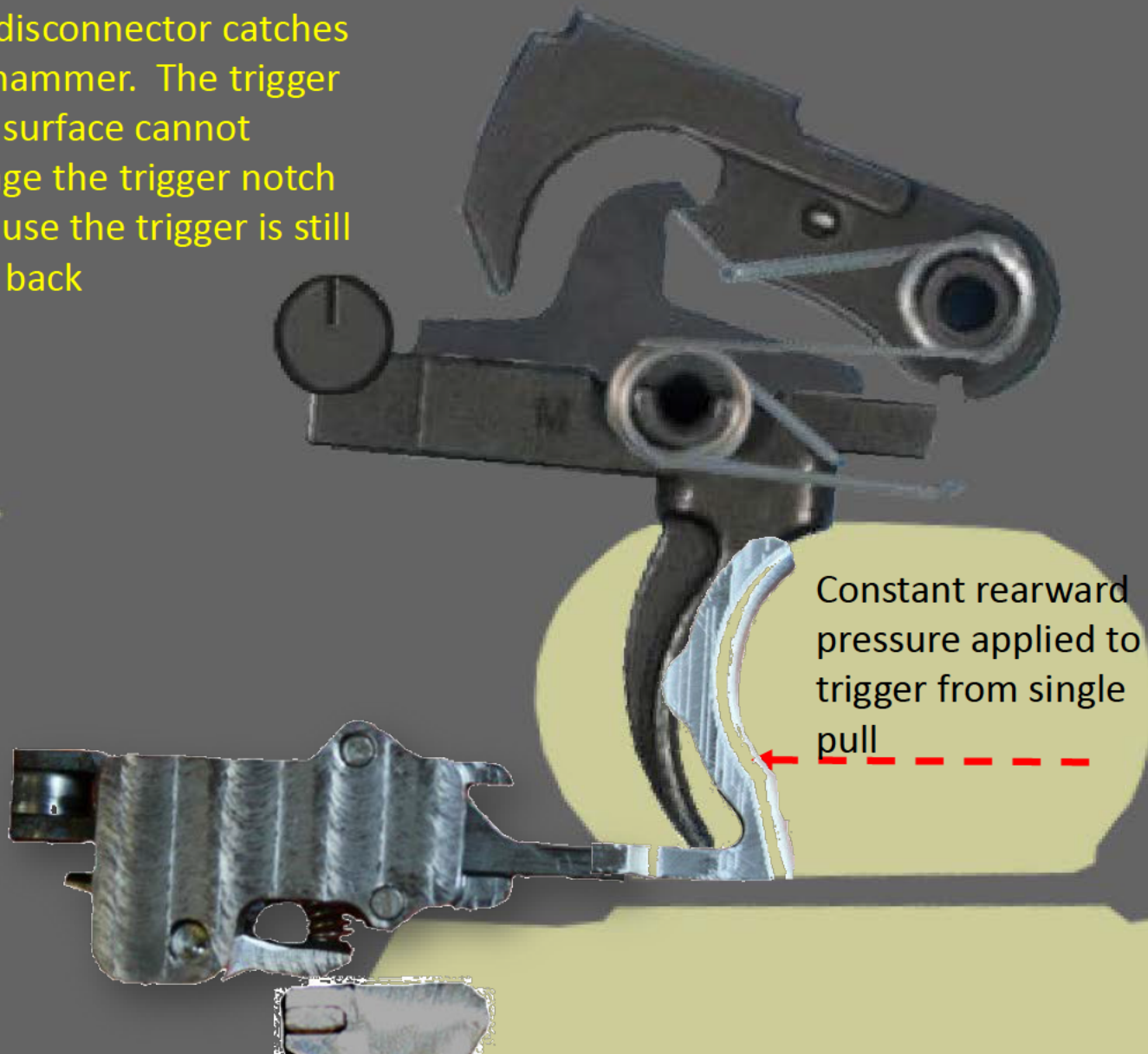
Constant rearward  
pressure applied to  
trigger from single  
pull

Propellant gasses force  
the bolt rearward and  
force the hammer down

Constant rearward  
pressure applied to  
trigger from single  
pull

Spring forces bolt forward

The disconnecter catches the hammer. The trigger sear surface cannot engage the trigger notch because the trigger is still held back



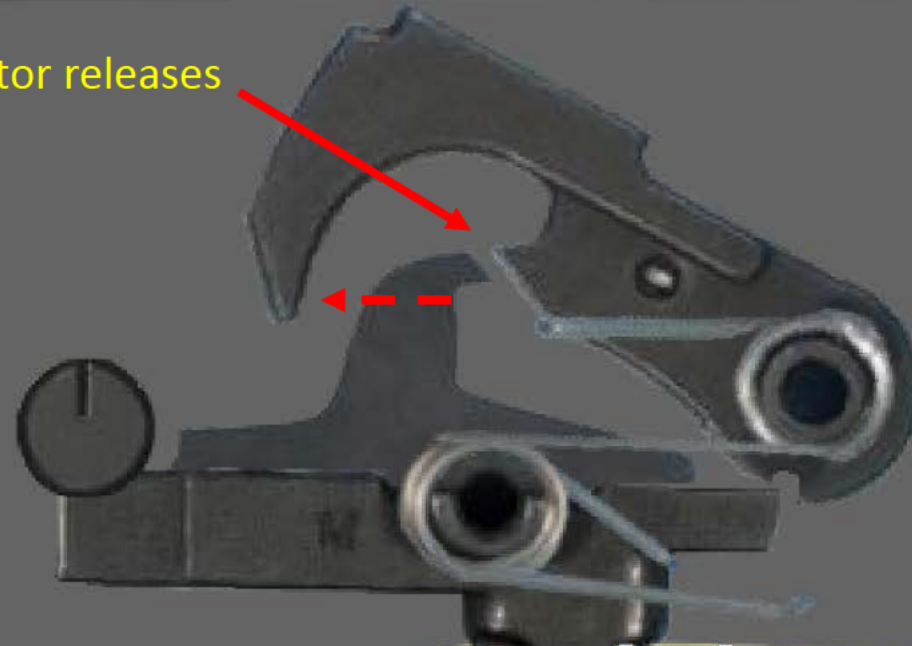
Constant rearward pressure applied to trigger from single pull



Disconnecter releases  
hammer

In this case, the motor forces the trigger forward even though the shooter maintains constant rearward pressure.

This is vital because this automatic movement (normally produced by the shooter releasing the trigger) causes the disconnecter to release the hammer and allow for another shot.



Constant rearward  
pressure applied to  
trigger from single  
pull

